

---

2  $\theta$  ( 2 Theta )

---

5.86

6.90

7.26

8.98

9.35

10.13

10.68

10.97

12.41

13.67

14.57

14.89

15.73

16.07

16.47

16.87

17.78

18.91

19.81

20.04

20.62

20.75

20.93

21.46

21.74

22.92

25.36

25.71

26.98

27.58

---

Mo-6341

- 3 -

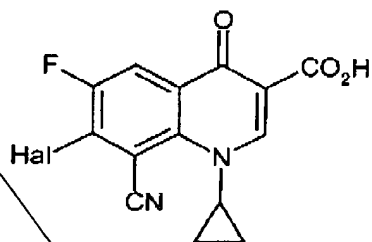
---

28.2430.61

---

and a melting point, determined by DTA, of from 278°C to 280°C.

4. CCDC semihydrochloride according to Claim 1, obtainable by reacting 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinoline-carboxylic acid of the formula (II)

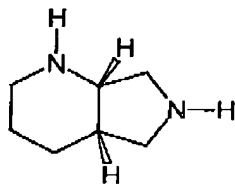


(II).

in which

Hal represents fluorine or chlorine,

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



(III).

optionally in the presence of a base, in one of the following diluents or diluent mixtures:

- a) aliphatic alcohols having at least four carbon atoms,

Mo-6341

- 4 -

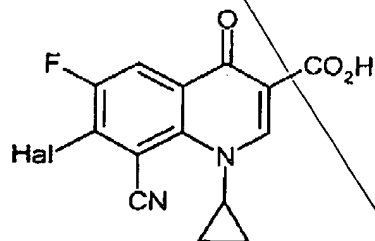
b) mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,

c) mixture of propanol and N,N-dimethylformamide,

or

d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.

5. Process for preparing CCDC semihydrochloride according to Claim 1, comprising reacting 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid of the formula (II)

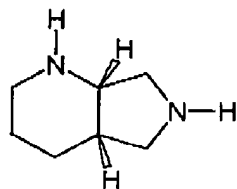


(II),

in which

Hal represents fluorine or represents chlorine

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



(III)

in the presence of a base in one of the following diluents or diluent mixtures:

- Sub  
R'  
cont.
- a) aliphatic alcohols having at least four carbon atoms,
- b) mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,
- c) mixture of propanol and N,N-dimethylformamide,
- or
- d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.
- Q2

6. Process for preparing CCDC semihydrochloride according to Claim 5, wherein the diluent used is an aliphatic alcohol having at least 4 carbon atoms or that an aliphatic alcohol having at least two carbon atoms is used as component of a diluent mixture.
7. Process for preparing CCDC semihydrochloride according to Claim 5, wherein if an aliphatic alcohol having at least 3 carbon atoms is used as component of a diluent mixture, N-methyl-pyrrolidone is simultaneously employed as a further diluent in a ratio of from 1 to 1 to 3 to 1.
8. Process for preparing CCDC semihydrochloride according to Claim 6,

Mo-6341

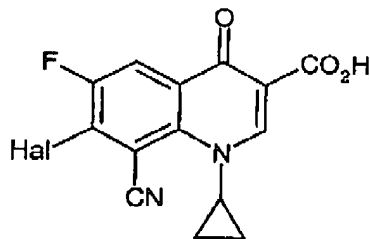
- 6 -

wherein if propanol is used as component of a diluent mixture, N,N-dimethylformamide is simultaneously employed as further diluent in a ratio of from 1 to 1 to 3 to 1.

- Sub  
R2  
A2
9. Medicament, characterized in that it comprises, in addition to customary auxiliaries and excipients, CCDC semihydrochloride according to Claim 1.
10. A method of preparing a medicament comprising formulating CCDC semihydrochloride according to Claim 1.
11. A process for treating bacteria comprising applying thereto an antibacterial composition containing CCDC semihydrochloride according to Claim 1.

Add the following new claims:

- 12. CCDC semihydrochloride according to Claim 2, obtainable by reacting 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinoline-carboxylic acid of the formula (II)

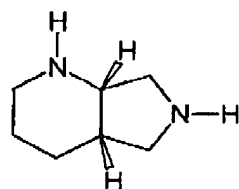


(II),

in which

Hal represents fluorine or chlorine,

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



(III),

optionally in the presence of a base, in a one of the following diluents or diluent mixtures:

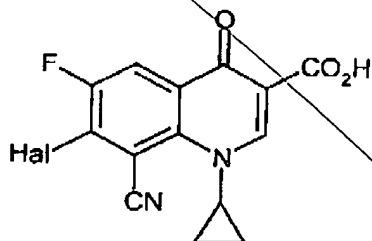
- a) aliphatic alcohols having at least four carbon atoms,
- b) mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,

- c) mixture of propanol and N,N-dimethylformamide,

or

- d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.

13. Process for preparing CCDC semihydrochloride according to Claim 2, characterized in that 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid of the formula (II)



(II),

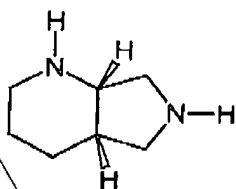
Mo-6341

- 8 -

in which

Hal represents fluorine or represents chlorine

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



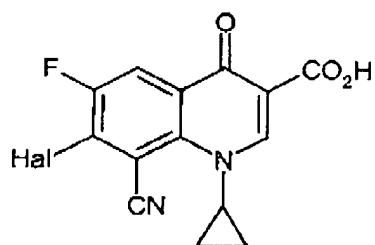
are reacted in the presence of a base in one of the following diluents or diluent mixtures:

- a) aliphatic alcohols having at least four carbon atoms,
  - b) mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,
  - c) mixture of propanol and N,N-dimethylformamide,
- or
- d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.

14. Process for preparing CCDC semihydrochloride according to Claim 3, characterized in that 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid of the formula (II)

Mo-6341

- 9 -

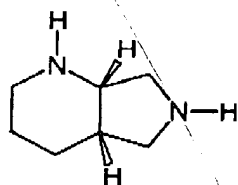


(II),

in which

Hal represents fluorine or represents chlorine

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



(III)

are reacted in the presence of a base in one of the following diluents or diluent mixtures:

- aliphatic alcohols having at least four carbon atoms,
- mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,
- mixture of propanol and N,N-dimethylformamide,

or

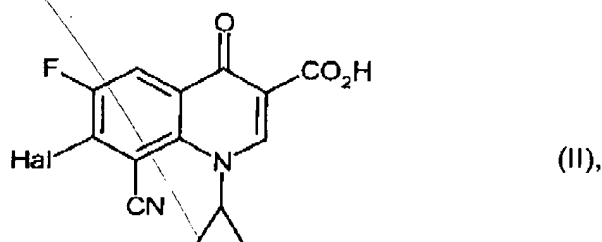
Mo-6341

- 10 -



- d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.

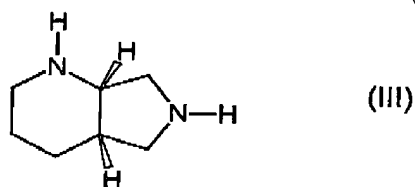
15. Process for preparing CCDC semihydrochloride according to Claim 4, characterized in that 7-halogeno-8-cyano-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid of the formula (II)



in which

Hal represents fluorine or represents chlorine

and (1S,6S)-2,8-diazabicyclo[4.3.0]nonane of the formula (III)



are reacted in the presence of a base in one of the following diluents or diluent mixtures:

- a) aliphatic alcohols having at least four carbon atoms,

b) mixture of aliphatic alcohols having at least three carbon atoms with N-methylpyrrolidone,

c) mixture of propanol and N,N-dimethylformamide,

or

d) mixture of ethanol with N-methyl-pyrrolidone with added tripropylamine, tributylamine, N-ethylmorpholine, N-propylmorpholine and/or N-butylmorpholine base.

16. Medicament, characterized in that it comprises, in addition to customary auxiliaries and excipients, CCDC semihydrochloride according to Claim 2.

17. Medicament, characterized in that it comprises, in addition to customary auxiliaries and excipients, CCDC semihydrochloride according to Claim 3.

18. Medicament, characterized in that it comprises, in addition to customary auxiliaries and excipients, CCDC semihydrochloride according to Claim 4.

19. A method of preparing a medicament comprising formulating CCDC semihydrochloride according to Claim 2.

20. A method of preparing a medicament comprising formulating CCDC semihydrochloride according to Claim 2.

21. A method of preparing a medicament comprising formulating CCDC semihydrochloride according to Claim 1.

22. A process for treating bacteria comprising applying thereto an antibacterial composition containing CCDC semihydrochloride according to Claim 2.

- Sub*  
*cont.*  
*43*
23. A process for treating bacteria comprising applying thereto an antibacterial composition containing CCDC semihydrochloride according to Claim 3.
24. A process for treating bacteria comprising applying thereto an antibacterial composition containing CCDC semihydrochloride according to Claim 4.--
-